

# APS-8M

Asynchronous Port Switch  
with Internal Modem



## Quick Start Guide



## **Warnings and Cautions:** **Installation Instructions**



### **Secure Racking**

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If Secure Racked units are installed in a closed or multi-unit rack assembly, they may require further evaluation by Certification Agencies. The following items must be considered.

1. The ambient within the rack may be greater than room ambient. Installation should be such that the amount of air flow required for safe operation is not compromised. The maximum temperature for the equipment in this environment is 45°C. Consideration should be given to the maximum rated ambient.
2. Installation should be such that a hazardous stability condition is not achieved due to uneven loading.

### **Input Supply**

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1. Check nameplate ratings to assure there is no overloading of supply circuits that could have an effect on overcurrent protection and supply wiring.
2. When installing 48 VDC rated equipment, it must be installed only per the following conditions:
  - A. Connect the equipment to a 48 VDC supply source that is electrically isolated from the alternating current source. The 48 VDC source is to be connected to a 48 VDC SELV source.
  - B. Input wiring to terminal block must be routed and secured in such a manner that it is protected from damage and stress. Do not route wiring past sharp edges or moving parts.
  - C. A readily accessible disconnect device, with a 3 mm minimum contact gap, shall be incorporated in the fixed wiring.

### **Grounding**

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Reliable earthing of this equipment must be maintained. Particular attention should be given to supply connections when connecting to power strips, rather than direct connections to the branch circuit.

### **No Serviceable Parts Inside; Authorized Service Personnel Only**

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Do not attempt to repair or service this device yourself. Internal components must be serviced by authorized personnel only.

- **Shock Hazard - Do Not Enter**

### **Disconnect Power**

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If any of the following events are noted, immediately disconnect the unit from the outlet and contact qualified service personnel:

1. If the power cord becomes frayed or damaged.
2. If liquid has been spilled into the device or if the device has been exposed to rain or water.

## 1. Introduction

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This Quick Start Guide describes a simplified installation procedure for the APS-8M hardware, which will allow you to communicate with the unit in order to demonstrate basic features and check for proper operation.

Note that this Quick Start Guide does not provide a detailed description of unit configuration, or discuss advanced operating features in detail. For more information, please refer to the APS-8M User's Guide (WTI P/N 13511), which can be found on the CDROM included with this Quick Start Guide or at our online user's guide archive at <http://www.wti.com/guides/guidarch.htm>.

## 2. Hardware Installation

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### Apply Power to the APS-8M

Refer to the power rating nameplate on the APS-8M back panel, and then connect the unit to an appropriate power source. Set the Master Power Switch on the APS-8M back panel to the ON position.

### Connect your Telco Line to the APS-8M

Use a standard RJ-11 cable to connect your Telco outlet to the Line Port, located on the APS-8M back panel. Note that the unit sees the internal modem as Port 8. To connect to the Modem Port, use the procedure described in Section 3 of this Quick Start Guide.

### Connect a PC to the APS-8M

Attach a standard null modem cable from your PC COM port to the Port 1 connector on the APS-8M back panel.

**Note:** When the APS-8M is shipped from the factory, communications parameters are set as follows: 9600 bps, RTS/CTS Handshaking, 8 Data Bits, One Stop Bit, No Parity. Although the APS-8M allows these parameters to be easily redefined, for this Quick Start procedure, it is recommended to configure your communications program (e.g. HyperTerminal) to accept the default parameters.

### Connect your Equipment to the Serial Ports

Use an appropriate DB9 cable to connect the RS232 Serial Port on your equipment to the desired Serial Port on the APS-8M

- **PCs and other DTE Devices:** Use a standard null modem cable.
- **External Modems and other DCE devices:** Use a standard serial modem cable.

### 3. Communicating with the APS-8M

The APS-8M command mode allows you to check unit status, change configuration parameters and connect and disconnect ports (including the Modem Port.)

- 1. **Access Command Mode:** Start your communications program and press [Enter]. The "APS>" Command prompt should appear, indicating that you have successfully accessed the APS-8M command mode.

**Note:** If a password that permits access to Supervisor Mode has been previously defined, a prompt will be displayed. Key in a Supervisor Level password, and press [Enter]. If a Supervisor Level password has not yet been defined, the prompt will not be displayed.

- 2. **Review the Help Menu:** At the APS Command Prompt, type /H and press [Enter] to display the Help Menu (Figure 1), which provides a basic listing of all APS-8M commands.
- 3. **Port Status Screen:** Type /S and press [Enter] to display the Port Status Screen (Figure 2), which summarizes conditions at all APS-8M ports.

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COMMAND MENU:

DISPLAY
/S      Port Status
/SD     Port Diagnostics
/W [n]  Port Parameters (Who)
/J      Site ID
/H      Command Menu (Help)
/V      View Password Directory

CONFIGURATION
/F      System Parameters
/P [n]  Port Parameters
/I      Default and Test
/UF     Upgrade Firmware
/CP     Copy Port Parameters

CONTROL
<Enter> Enter Command Mode
/X      Exit Command Mode
/C <n> [n] Connect - Local [Remote]
/D <n | ... | *> Disconnect Port(s)
/E <n | ... | *> Erase Buffer
/U      Send Parameter File
/UL     Unlock Invalid Access

+-----+
| n  Port# or name |
| *  "all"         |
| |  "or"          |
| <> Required entry |
| [] Optional entry|
+-----+

/D, /E, /I commands: add /Y to bypass "Sure (y/n)?"
APS>
```

Figure 1: The Help Screen

PORT STATUS: APS-M, Version 3.0, Site ID: (undefined)					
PORT	NAME	CMD ACCESS	STATUS	MODE	BUFFER COUNT
01	(undefined)	Unlocked	Free	Any	0
02	(undefined)	Unlocked	Free	Any	0
03	(undefined)	Unlocked	Free	Any	0
04	(undefined)	Unlocked	Free	Any	0
05	(undefined)	Unlocked	Free	Any	0
06	(undefined)	Unlocked	Free	Any	0
07	(undefined)	Unlocked	Free	Any	0
08	Internal_Modem	Unlocked	Free	Modem	0

Enter /H for command menu.  
APS>

Figure 2: The Port Status Screen

4. **Creating Connections Between Ports:** The APS-8M can perform two different types of port connections; Resident Connections and Third Party Connections.
  - a) **Resident Connection:** Your resident port (e.g. Port 1) issues a /C command to connect to a second port.
    - i. To connect Port 1 to Port 2, type **/C 2 [Enter]**. While Port 1 is connected, the APS-8M will not recognize commands issued at Port 1. However, the unit will recognize a Resident Disconnect Sequence issued at Port 1 or Port 2.
    - ii. Issue the Resident Disconnect Sequence (Logoff Sequence); type **^X** (press **[Ctrl]** and **[X]** at the same time).
  - b) **Third Party Connection:** Your resident port (e.g. Port 1) issues a /C command to create a connection between two other ports.
    - i. To connect Port 2 to Port 3, type **/C 2 3 [Enter]**.
    - ii. While Ports 2 and 3 are connected, Port 1 will still recognize APS commands. Type **/S [Enter]** to display the Port Status Screen. The "STATUS" column should now list Ports 2 and 3 as connected, and Port 1 as "Free".
    - iii. Issue a Third Party Disconnect command to disconnect Ports 2 and 3; type **/D 2 [Enter]**. The unit will display the "Are you Sure (y/n)?" prompt. Type **y** and press **[Enter]** to disconnect.
    - iv. Type **/S [Enter]** to display the Port Status Screen. The "STATUS" column should now list Ports 2 and 3 as "Free".

5. **Exit Command Mode:** At the "APS>" command prompt, type **/x** and press **[Enter]**. The APS-8M will exit command mode.
6. **Access Command Mode via Modem:** From a PC with a modem and Telco line, dial the number for the line which is connected to the APS-8M's internal modem. Once the connection is established, the unit should send the "APS>" command prompt, indicating that you have successfully accessed command mode.

**Note:** If a password that permits access to Supervisor Mode has been previously defined, a prompt will be displayed. Key in a Supervisor Level password, and press **[Enter]**. If a Supervisor Level password has not yet been defined, the prompt will not be displayed.

- a) Type **/h** and press **[Enter]** to display the Help Menu. If desired, you may also wish to repeat the Port Connection / Disconnection examples described in Step 4 above.
- b) When you have finished communicating with the APS-8M unit, type **/x** and press **[Enter]** to exit command mode and terminate the modem connection to the unit.

This completes the Quick Start Guide for the APS-8M. Prior to placing the unit into operation, it is recommended to refer to the APS-8M User's Guide for important information regarding advanced configuration capabilities and more detailed operation instructions. If you have further questions regarding the IPS unit, please contact WTI Customer Support as described in the User's Guide.

## **FCC Part 15 Regulation**

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

**WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

## **EMC, Safety, and R&TTE Directive Compliance**

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The CE mark is affixed to this product to confirm compliance with the following European Community Directives:

- Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of Member States relating to electromagnetic compatibility;  
and
- Council Directive 73/23/EEC of 19 February 1973 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits;  
and
- Council Directive 1999/5/EC of 9 March on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

## **Industry Canada**

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This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

This product meets the applicable Industry Canada technical specifications

The Ringer Equivalence Number is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five



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